\$	00000000 00000000 00000000	RRRRRRRRRRRR RRRRRRRRRRRRRRRRRRRRRRRRR		333333333 333333333 3333333333	222222222
\$\$\$ \$\$\$ \$\$\$	000 000 000 000	RRR RRR RRR RRR	111	333 333 333 333	222 222 222 222 222
\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$	000 000 000 000	RRR RRR RRR RRR	111	333 333 333	222
\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$	000 000 000 000	RRRRRRRRRRRR RRRRRRRRRRRR RRRRRRRRRRRR	111	333 333 333	222
\$\$\$ \$\$\$ \$\$\$	000 000 000 000	RRR RRR RRR RRR	111	333	222
\$\$\$ \$\$\$ \$\$\$	000 000 000 000	RRR RRR RRR RRR	111	333 333 333 333	222
\$	00000000 00000000 00000000	RRR RRR RRR RRR	††† †††	333333333 333333333 333333333	222222222222222

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Pse

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CDD

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Version:

'V04-000'

TITLE: CDDMAC

CDD Macro Require File

FACILITY: Common Data Dictionary

ABSTRACT:

This require file contains the CDD Macros used to access the CDD User Interface.

ENVIRONMENT:

AUTHOR: Jeff East and Kenneth J. Marchilena,

21-0ct-80

MODIFIED BY:

P.D.Gilbert 31-Jul-1981

fixed bug with \$CDD\$CREATE_HISTORY with no descriptor parameter

\$R(parm)

This macro checks to make certain a required parameter is present.

MACRO

!--

\$R(parm) = %IF %NULL (parm) %THEN %WARN ('Required parameter'

MARKA (REQUITE MOUDTE MOUDTE MOUDTE MOUDTE parm, ' missing.')

```
16-SEP-1984 17:02:19.90 Page 2
CDDMAC.R32:1
         XELSE.
         XF I
    %:
KEYWORDMACRO
         status.wlc.v = CDD$CLEAR_CELL (context.rlu.r, list.rlu.r,
                          cell.rwu.v);
    $CDD$CLEAR_CELL (context, list, cell) =
         BEGIN
             EXTERNAL ROUTINE
                  CDD$CLEAR_CELL
                                              : FORTRAN:
              CDD$CLEAR_CELL (%EXPAND $R(context), %EXPAND $R(list),
                  XEXPAND $R(cell))
         END
    X.
         status.wic.v = CDD$CREATE_ACL_ENTRY (context.rlu.r, [path.rt.dx]
                  [node.rlu.r] , position.rwu.v, [grant.rlu.v] , [deny.rlu.v] ,
[banish.rlu.v] , [password.rt.dx] ,
[terminal.rt.dx] , [uic.rt.dx] , [username.rt.dx]);
    $CDD$CREATE_ACL_ENTRY (context, path, node, position, grant=0, deny=0,
    banish=0, password=0, terminal=0, uic=0, username=0) = BEGIN
             EXTERNAL ROUTINE
                  CDD$CREATE_ACL_ENTRY
                                            : FORTRAN;
             CDD$CREATE ACL_ENTRY (%EXPAND $R(context) %IF %NULL (path) %THEN %IF %NULL (node) %THEN
                            %ERROR ('Either path or node must be specified')
                      XELSÉ 0. 0
                            . 0. node
                       XF I
                  XELSE
                       XIF XNULL (node) XTHEN
                      XELSÉ path, 0
                      XFI , path, node
                  XF I
                  , %EXPAND $R(position), grant, deny, banish, password, terminal, uic,
         END
```

CDD

```
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CDDMAC.R32:1
    X.
       $CDD$CREATE_DIR (context, path, node, protocol, options, location) =
        BEGIN
            EXTERNAL ROUTINE
                 CDD$CREATE_DIR
                                           : FORTRAN:
            CDDSCREATE_DIR (%EXPAND $R(context), %EXPAND $R(path)
                 XIF XNULL(node) XTHEN
XIF XNULL(protocol) XTHEN
XIF XNULL (options) XTHEN
XIF XNULL (location) XTHEN
                                  , 0, 0, 0, location)
                          XELSE.
                              0. 0. options
%IF %NULL (location) %THEN
                              XELSE
                             %FI . location)
                          XF I
                     XELSE
                          21F XNULL (options) XTHEN
                              XIF XNULL (location) XTHEN
                              XELSE
                                  , O, location)
                          XELSE
                              options
%IF %NULL (location) %THEN
                              XELSE
                             XFI . location)
                         XF I
                 XELSE XFI
                     IF INULL (protocol) ITHEN
IF INULL (options) ITHEN
IF INULL (location) ITHEN
                              XELSE
                                  . O. O. location)
```

CDD

END

BEGIN

END

I.

X.

```
XELSE XFI
                      10. options
11F %NULL (location) %THEN
                      XELSE
                     XFI . location)
              XELSE XFI
                  protocol
%IF %NULL (options) %THEN
%IF %NULL (location) %THEN
                     XFI , 0, location)
                  XELSE
                      Options XIF XNULL (location) XTHEN
                      XELSE
                     XFI , location)
         XFI XFI
   $CDD$CREATE_ENTITY_ATT (context, entity, attribute, location) =
       EXTERNAL ROUTINE
          CDD$CREATE_ENTITY_ATT : FORTRAN;
       CDD$CREATE_ENTITY_ATT (%EXPAND $R(context), %EXPAND $R(entity), %EXPAND $R(attribute), %EXPAND $R(location))
```

\$CDD\$CREATE_ENTITY_LIST_ATT (context, entity, attribute, list_size, location) =

CDI

BEGIN EXTERNAL ROUTINE CDD\$CREATE_HISTORY : FORTRAN;

CDD\$CREATE_HISTORY (%EXPAND \$R(context), %EXPAND \$R(entity),

%EXPAND \$R(facility), %EXPAND \$R(access)

CDI

```
CDDMAC.R32:1
                    %IF %NULL (program) %THEN
                        %IF %NULL (description) %THEN
                        XELSE
                            , 0, description)
                    XELSE
                        %IF %NULL (description) %THEN
                       XELSÉ program)
                       %FI , program, description)
                    XFI
       END
   Z.
       status.wlc.v = CDD$CREATE_NULL_ATT (context.rlu.r, entity.rlu.r,
                       attribute.rlu.v7;
   $CDD$CREATE_NULL_ATT (context, entity, attribute) =
       BEGIN
           EXTERNAL ROUTINE
                CDD$CREATE_NULL_ATT
                                        : FORTRAN;
            CDD$CREATE_NULL_ATT (%EXPAND $R(context), %EXPAND $R(entity),
                %EXPAND $R(attribute))
       END
   Z.
       status.wlc.v = CDD$CREATE_NUM_ATT (context.rlu.r, entity.rlu.r,
                       attribute.rlu.v, value.rl.v);
   $CDD$CREATE_NUM_ATT (context, entity, attribute, value) =
```

```
BEGIN
    EXTERNAL ROUTINE
        CDD$CREATE_NUM_ATT
                                 : FORTRAN;
```

CDD\$CREATE_NUM_ATT (%EXPAND \$R(context), %EXPAND \$R(entity), XEXPAND SR(attribute), XEXPAND SR(value))

END Z.

> status.wlc.v = CDD\$CREATE_STRING_ATT (context.rlu.r, entity.rlu.r. attribute.rlu.v, value.rt.dx , [value_size.rwu.v]);

```
$CDD$CREATE_STRING_ATT (context, entity, attribute, value, value_size) =
    BEGIN
         EXTERNAL ROUTINE
CDDSCREATE_STRING_ATT
                                                     : FORTRAN:
         CDDSCREATE_STRING_ATT (%EXPAND $R(context), %EXPAND $R(entity), %EXPAND $R(attribute), %EXPAND $R(value) %IF %NULL (value_size) %THEN
              %f1 , value_size)
    END
Z.
    $CDD$CREATE_STRING_LIST_ATT (context, entity, attribute, list_size,
location) =
    BEGIN
         EXTERNAL ROUTINE
              CDD$CREATE_STRING_LIST_ATT
                                                     : FORTRAN;
         CDD$CREATE_STRING_LIST_ATT (%EXPAND $R(context), %EXPAND $R(enfity), %EXPAND $R(attribute), %EXPAND $R(location))
    END
X.
   status.wlc.v = CDD$CREATE_TERM (context.rlu.r, path.rt.dx, [node.rlu.r],
    protocol.rt.dx, options.rlu.v, location.wlu.r , [prior.rt.dx]);
$CDD$CREATE_TERM (context, path, node=0, protocol, options=0,
     location, prior) =
    BEGIN
         EXTERNAL ROUTINE
              CDD$CREATE_TERM
                                           : FORTRAN;
         CDDSCREATE_TERM (%EXPAND $R(context), %EXPAND $R(path), node,
               XEXPAND $R(protocol), options, XEXPAND $R(location)
               %IF %NULL (prior) %THEN
              XEL SE
              XFI . prior)
    END
```

```
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CDDMAC.R32:1
   7.
      $CDD$DELETE_ACL_ENTRY (context, path, node, position) =
      BEGIN
          EXTERNAL ROUTINE
             CDD$DELETE_ACL_ENTRY
                                : FORTRAN;
          CDDSDELETE ACL ENTRY (%EXPAND $R(context) %IF %NOLL (path) %THEN
                 XIF XNULL (node) XTHEN
                    XERROR ('Either path or node must be specified')
                ZELSÉ O. O
                XFI . 0. node
             XELSE
                 XIF XNULL (node) XTHEN
                ZELSÉ path, 0
                XFI , path, node
             , XEXPAND $R(position))
      END
   I.
      $CDD$DELETE_ATT (context, entity, attribute) =
      BEGIN
          EXTERNAL ROUTINE
             CDD$DELETE_ATT
                                  : FORTRAN;
          CDD$DELETE_ATT (%EXPAND $R(context), %EXPAND $R(entity),
             %EXPAND $R(attribute))
      END
   I.
     status.wlc.v = CDD$DELETE_NODE (context.rlu.r, [path.rt.dx] ,
```

[node.rlu.r] , [options.rlu.v]);

CDI

```
CDDMAC.R32:1
    $CDD$DELETE_NODE (context, path, node, options) =
        BEGIN
            EXTERNAL ROUTINE
                 CDD$DELETE_NODE
                                           : FORTRAN;
            CDD$DELETE_NODE (%EXPAND $R(context)
                 XIF XNULL (path) XTHEN
XIF XNULL (node) XTHEN
                          XERROR ('Either path or node must be specified')
                     %FI . 0. node
                 XELSE
                     %IF %NULL (node) %THEN
                     XELSÉ Path
                     XFI , path, node
                 XIF XNULL (options) XTHEN
                 XELSE
                     . options)
                 XFI
        END
   I.
        status.wic.v = CDD$fILL_STRING_CELL (context.rlu.r, list.rlu.r,
                        cell.rwu.v, value.rt.dx , [value_size.rwu.v]);
   $CDD$FILL_STRING_CELL (context, list, cell, value, value_size) =
        BEGIN
            EXTERNAL ROUTINE
                 CDDSFILL_STRING_CELL
                                           : FORTRAN;
            CDD$FILL STRING CELL (XEXPAND $R(context), XEXPAND $R(list), XEXPAND $R(cell), XEXPAND $R(value)
                 IIF INULL (value_size) ITHEN
                %FI . value_size)
        END
```

CD

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```
$CDD$f1ND_NODE (context, path, node, location, protocol, protocol_size) =
    BEGIN
        EXTERNAL ROUTINE
            CDDSF IND_NODE
                                       : FORTRAN;
        CDDSFIND NODE (XEXPAND $R(context) XIF XNULL(path) XTHEN XIF XNULL (node) XTHEN
                     XERROR ('Either path or node must be specified')
                     . 0. node
                 %FI
            MELSE
                 %IF %NULL (node) %THEN
                XELSE path, 0
                XFI , path, node
            XIF XNULL (Location) XTHEN
                 XIF XNULL (protocol) XTHEN
                     XIF XNULL (protocol_size) XTHEN
                          XERROR ('Protocol-size cannot be used without protocol')
                 XELSE XFI
                       0, protocol
                     XIF XNULL (protocol_size) XTHEN
                     XELSE
                    %FI , protocol_size)
            XELSE XFI
                   location
                 #IF #NULL (protocol) #THEN
                     XIF XNULL (protocol_size) XTHEN
                     XELSE
                          XERROR ('Protocol-size cannot be used without protocol')
                 XF I
                     #IF #NULL (protocol_size) #THEN
                     XELSE
                    %FI . protocol_size)
                 XF I
            XF I
```

XF I

END

, %EXPAND \$R(rights))

CD

.

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CD

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```
$CDD$GET_ACL_ENTRY (context, node, position, grant, deny,
banish, password, terminal, uic, username) = BEGIN
        EXTERNAL ROUTINE
             CDDSGET_ACL_ENTRY
                                       : FORTRAN:
        CDD$GET_ACL_ENTRY (%EXPAND $R(context), %EXPAND $R(node), %EXPAND $R(position), %EXPAND $R(grant), %EXPAND $R(deny), %EXPAND $R(banish), %EXPAND $R(password), %EXPAND $R(terminal), %EXPAND $R(uic), %EXPAND $R(username))
        END
    $CDD$GET_ATT (context, entity, attribute, type, location, value, value_size) =
    BEGIN
        EXTERNAL ROUTINE
             CDD$GET_ATT
                                       : FORTRAN:
        CDD$GET_ATT (%EXPAND $R(context), %EXPAND $R(entity),
            XEXPAND $R(attribute), XEXPAND $R(type)
XIF XNULL (location) XTHEN
                 XIF XNULL (value) XTHEN
                      XIF XNULL (value_size) XTHEN
                     %FI . 0. 0, value_size)
                 XELSE
                      XIF XNULL (value_size) XTHEN
                     XELSÉ O, value)
                     %FI ,0, value, value_size)
                 XF I
             XELSE
                 XIF XNULL (value) XTHEN
                      XIF XNULL (value_size) XTHEN
                     XELSÉ location)
```

```
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CDDMAC.R32:1
                        %FI , location, 0, value_size)
                        XIF XNULL (value_size) XTHEN location, value)
                        XFI , location, value, value_size)
               XF1 XF1
        END
        status.wlc.v = CDD$GET_ATTS (context.rlu.r, location.rlu.r,
                       list.ra.v):
   $CDD$GET_ATTS (context, location, list) =
BEGIN
            EXTERNAL ROUTINE
                CDD$GET_ATTS
                                         : FORTRAN;
            CDD$GET_ATTS (%EXPAND $R(context), %EXPAND $R(location),
                MEXPAND SR(List))
        END
        $CDD$GET_ENTITY_ATT (context, entity, attribute, location) = BEGIN
            EXTERNAL ROUTINE CDD$GET_ENTITY_ATT
                                         : FORTRAN;
            CDD$GET_ENTITY_ATT (%EXPAND $R(context), %EXPAND $R(entity), %EXPAND $R(attribute), %EXPAND $R(location))
        END
        status.wlc.v = CDD$GET_ENTITY_CELL (context.rlu.r, list.rlu.r,
                       cell.rwu.v, location.wlu.r);
   $CDD$GET_ENTITY_CELL (context, list, cell, location) =
        BEGIN
```

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CDDMAC.R32:1
              EXTERNAL ROUTINE
                   CDD$GET_ENTITY_CELL
                                                : FORTRAN:
              CDD$GET_ENTITY_CELL (%EXPAND $R(context), %EXPAND $R(list), %EXPAND $R(cell), %EXPAND $R(location))
         $CDD$GET_ENTITY_LIST_ATT (context, entity, attribute, location,
list_size) =
BEGIN
              EXTERNAL ROUTINE
                   CDD$GET_ENTITY_LIST_ATT : FORTRAN;
             CDD$GET_ENTITY_LIST_ATT (%EXPAND $R(context), %EXPAND $R(entity), %EXPAND $R(attribute), %EXPAND $R(location) %IF %NULL (list_size) %THEN
                   XELSE
                        , list_size)
         END
    X.
         status.wlc.v = CDD$GET_NEXT_ATT (context.rlu_r, entity.rlu.r,
                           attribute.wlu.r, type.wlu.r, [location.wlg.r], [string.rt.dx], [value_size.rwu.r]);
    $CDD$GET_NEXT_ATT (context, entity, attribute, type, location, string,
                           value_size) =
         BEGIN
              EXTERNAL ROUTINE
                   CDD$GET_NEXT_ATT
                                                : FORTRAN;
              CDD$GET_NEXT_ATT (%EXPAND $R(context), %EXPAND $R(entity), %EXPAND $R(attribute), %EXPAND $R(type) %IF %NULL (location) %THEN
                        XIF XNULL (string) XTHEN
                             XIF XNULL (value_size) XTHEN
                                 , 0, 0, value_size)
                        XELSE
```

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CDDMAC.R32:1
                      %IF %NULL (value_size) %THEN
                            0, string)
                      KELSÉ
                      %FI ,0, string, value_size)
                  XF 1
              XELSE

XIF XNULL (string) XTHEN

XIF XNULL (value_size) XTHEN

location)
                      XELSÉ location)
                      %FI , location, 0, value_size)
                  XELSE
                      XELSÉ location, String)
                      XIF XNULL (value_size) XTHEN
                      %FI . location, string, value_size)
             XFI XFI
       END
       status.wlc.v = CDD$GET_NULL_ATT (context.rlu.r, entity.rlu.r,
                     attribute.rlu.v);
   $CDD$GET_NULL_ATT (context, entity, attribute) =
       BEGIN
           EXTERNAL ROUTINE
              CDD$GET_NULL_ATT
                                     : FORTRAN:
           END
   X.
       $CDD$GET_NUM_ATT (context, entity, attribute, value) =
       BEGIN
           EXTERNAL ROUTINE
                                     : FORTRAN:
               CDD$GET_NUM_ATT
           CDD$GET_NUM_ATT (%EXPAND $R(context), %EXPAND $R(entity), %EXPAND $R(attribute), %EXPAND $R(value))
       END
```

```
CDDMAC.R32:1
```

```
1,
    $CDD$GET_STRING_ATT (context, entity, attribute, value, value_size) =
BEGIN
         EXTERNAL ROUTINE
              CDDSGET_STRING_ATT
                                          : FORTRAN:
         CDD$GET_STRING_ATT (%EXPAND $R(context), %EXPAND $R(entity), %EXPAND $R(attribute), %EXPAND $R(value) %IF %NULL (value_size) %THEN
              XELSE
                   , value_size)
              XF I
     END
X.
    status.wlc.v = CDD$GET_STRING_CELL (context.rlu.r, list.rlu.r, cell.rwu.v, value.wt.dx , [value_size.wwu.r]);
```

\$CDD\$GET_STRING_CELL (context, list, cell, value, value_size) =
BEGIN EXTERNAL ROUTINE CDD\$GET_STRING_CELL : FORTRAN;

> CDD\$GET_STRING_CELL (%EXPAND \$R(context), %EXPAND \$R(list), %EXPAND \$R(cell), %EXPAND \$R(value) XIF XNULL (value_size) XTHEN

XELSE

, value_size)

END X.

> status.wlc.v = CDD\$GET_STRING_LIST_ATT (context.rlu.r, entity.rlu.r, attribute.rlu.v, location.wlu.r, [list_size.wwu.r]);

\$CDD\$GET_STRING_LIST_ATT (context, entity, attribute, location, list_size) =

```
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CDDMAC.R32:1
         BEGIN
             EXTERNAL ROUTINE
                  CDD$GET_STRING_LIST_ATT : FORTRAN;
             CDD$GET_STRING_LIST_ATT (%EXPAND $R(context), %EXPAND $R(entity), %EXPAND $R(attribute), %EXPAND $R(location) %IF %NULL (list_size) %THEN
                  XELSE
                      , list_size)
        END
       status.wic.v = CDD$LOCK_NODE (context.rlu.r, [path.rt.dx] ,
               [node.rlu.r] , location.wlu.r , [protocol.wt.dx] ,
               [protocol-size.www.r] );
    $CDD$LOCK_NODE (context, path, node, location, protocol, protocol_size) =
        BEGIN
             EXTERNAL ROUTINE
                  CDD$LOCK_NODE
                                             : FORTRAN:
             CDD$LOCK_NODE (%EXPAND $R(context)
                  XIF XNULL (path) XTHEN
                      XIF XNULL (node) XTHEN
                           %ERROR ('Either path or node must be specified')
                      XELSÉ
                           , 0, node
                  XELSE
                      XIF XNULL (node) XTHEN
                      XELSE path, 0
                      XFI , path, node
                  XF I
                    XEXPAND $R(location)
                  XIF XNULL (protocol) XTHEN
XIF XNULL (protocol_size) XTHEN
                           XERROR ('Protocol-size cannot be used without protocol')
                      XF I
                  XELSE
                      protocol
IIF INULL (protocol_size) ITHEN
                      XELSE
                           , protocol_size)
```

```
CDDMAC.R32:1
```

```
XF I
        XF I
END
```

status.wic.v = CDD\$NEXT_NODE (context.rlu.r, node.rlu.r, name.wt.dx,
[name-size.wwu.r], [location.wlu.r], [protocol.wt.dx], [protocol-size.www.r]);

\$CDD\$NEXT_NODE (context, node, name, name_size, location, protocol, protocol size) = BEGIN

EXTERNAL ROUTINE CDD\$NEXT_NODE

MF I

: FORTRAN: CDD\$NEXT_NODE (%EXPAND \$R(context), %EXPAND \$R(node), XEXPAND \$R(name)
XIF XNULL (name size) XTHEN
XIF XNULL (Tocation) XTHEN XIF XNULL (protocol) XTHEN XIF XNULL (protocol_size) XTHEN XERROR ('Protocol-size cannot be used without protocol') XF I XELSE 10. 0. protocol XIF XNULL (protocol_size) XTHEN XFI , protocol_size) XFI XELSE O. location \$1F ENULL (protocol) THEN XIF XNULL (protocol_size) XTHEN **XELSE** XERROR ('Protocol-size cannot be used without protocol') XELSE #IF #NULL (protocol_size) #THEN %FI * protocol_size)

END

BEGIN

X.

```
XELSE
                   name_size

#IF #NULL (location) #THEN

#IF #NULL (protocol) #THEN

#IF #NULL (protocol_size) #THEN
                             MELSE
                                 XERROR ('Protocol-size cannot be used without protocol')
                             %F 1
                        MELSE
                            11 Thull (protocol_size) THEN
                            %FI , protocol_size)
                        XF I
                   XEL SE
                          location
                       #IF #NULL (protocol #THEN #IF #NULL (protocol_size) #THEN
                             XELSE
                                 XERROR ('Protocol-size cannot be used without protocol')
                             XF I
                        XELSE
                            #IF %NULL (protocol_size) %THEN
                             XELSE
                           %FI protocol_size)
           XFI XFI XFI
   status.wic.v = CDD$RENAME_NODE (context.rlu.r, [path.rt.dx] ,
           [node.rlu.r] , name.rt.dx);
$CDD$RENAME_NODE (context, path, node, name) =
         EXTERNAL ROUTINE
              CDD$RENAME_NODE
                                           : FORTRAN;
         CDDSRENAME NODE (XEXPAND SR(context)
XIF XNULL (path) XTHEN
XIF XNULL (node) XTHEN
                        XERROR ('Either path or node must be specified')
```

X.

```
XELSÉ 0. 0
            XFI
XELSE
XIF XNULL (node) XTHEN
                %ELSÉ path, 0
                %FI , path, node
             , XEXPAND $R(name))
    END
   $CDD$RLSE_LOCKS (context, path, node, options) =
BEGIN
        EXTERNAL ROUTINE
            CDD$RLSE_LOCKS
                                      : FORTRAN:
        CDD$RLSE_LOCKS (%EXPAND $R(context)
%IF %XNULL(path) %THEN
%IF %XNULL(node) %THEN
%IF %XNULL(options) %THEN
                         . 0, 0, options)
                     XF I
                 XELSE
                     0, node
%IF %NULL(options) %THEN
                     %FI . options)
            XELSE XFI
                 TIF THULL (node) THEN
                     %IF %NULL(options) %THEN
                     XFI . 0. options)
                 XELSE
                     IF INULL (options) ITHEN
                     XELSE
```

```
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CDDMAC.R32:1
                XFI XFI , options)
        END
       status_wlc.v = CDD$SET_DEFAULT (context.rlu.r, [path.rt.dx] ,
              [node.rlu.r]);
    $CDD$SET_DEFAULT (context, path, node) = BEGIN
             EXTERNAL ROUTINE
                 CDD$SET_DEFAULT
                                            : FORTRAN;
             CDD$SET_DEFAULT (%EXPAND $R(context)

%IF %NULL(path) %THEN

%IF %NULL (node) %THEN

%ERROR ('Either path or node must be specified')
                     XELSÉ 0, 0)
                     %F1 . 0, node)
                      XIF XNULL (node) XTHEN
                      XELSE path, 0)
                     %FI , path, node)
                 XFI
        END
       status.wlc.v = CDD$SIGN_IN (context.wlu.r , [default_dir.rt.dx]);
    $CDD$SIGN_IN (context, default_dir) =
BEGIN
             EXTERNAL ROUTINE
                 CDD$SIGN_IN
                                             : FORTRAN;
             CDD$SIGN_IN (%EXPAND $R(context)
                  XIF INULL (default_dir) XTHEN
                      , default_dir)
                 XF I
        END
    Z.
```

```
CDDMAC.R32:1

Status.wlc.v = CDD$SIGN_OUT (context.rlu.r);

$CDD$SIGN_OUT (context) = BEGIN EXTERNAL ROUTINE CDD$SIGN_OUT : FORTRAN;

CDD$SIGN_OUT (XEXPAND $R(context))

X:

UNDECLARE XQUOTE $R;
```

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